<u>RAW SEQUENCE LISTING</u>

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: _10/518,710_

Source: _PCT_

Date Processed by STIC: _4-5-06_

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: _10/518, 710_   CRF Edit Date: _4/5_
                                       Edited by: _RQ_

____ Realigned nucleic acid/amino acid numbers/text in cases where the sequence
text "wrapped" to the next line

____ Corrected the SEQ ID NO. Sequence numbers edited were:

_____

____ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID
NO's edited:

_____

____ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

____ Inserted mandatory headings/numeric identifiers, specifically:

_____

____ Moved responses to same line as heading/numeric identifier, specifically:

_____

_√_ Other: _Corrected Amino Acid Numbering,_
for seq ID #3.
_____

Revised 09/09/2003

PCT

RAW SEQUENCE LISTING   DATE: 04/05/2006
PATENT APPLICATION: US/10/518,710   TIME: 10:29:39

Input Set : **A:\pto.kd.txt**
Output Set: **N:\CRF4\04042006\J518710.raw**

```
 3 <110> APPLICANT: Tomizawa, Kazuhito
 4        Matsui, Hideki
 6 <120> TITLE OF INVENTION: Inhibitor of constitutive active forming of carcineurin
 8 <130> FILE REFERENCE: JP-13650
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/518,710
C--> 10 <141> CURRENT FILING DATE: 2004-12-22
10 <160> NUMBER OF SEQ ID NOS: 6
13 <210> SEQ ID NO: 1
14 <211> LENGTH: 16
15 <212> TYPE: PRT
16 <213> ORGANISM: human
18 <400> SEQUENCE: 1
19 Phe Asp Gly Ala Thr Ala Ala Ala Arg Lys Glu Val Ile Arg Asn Lys
20  1               5                  10                  15
23 <210> SEQ ID NO: 2
24 <211> LENGTH: 17
25 <212> TYPE: PRT
26 <213> ORGANISM: human
28 <400> SEQUENCE: 2
29 Arg Glu Glu Ser Glu Ser Val Leu Thr Leu Lys Gly Leu Thr Pro Thr
30  1               5                  10                  15
32 Gly
35 <210> SEQ ID NO: 3
36 <211> LENGTH: 521
37 <212> TYPE: PRT
38 <213> ORGANISM: human
40 <400> SEQUENCE: 3
41 Met Ser Glu Pro Lys Ala Ile Asp Pro Lys Leu Ser Thr Thr Asp Arg
42  1               5                  10                  15
44 Val Val Lys Ala Val Pro Phe Pro Pro Ser His Arg Leu Thr Ala Lys
45              20                  25                  30
47 Glu Val Phe Asp Asn Asp Gly Lys Pro Arg Val Asp Ile Leu Lys Ala
48              35                  40                  45
50 His Leu Met Lys Glu Gly Arg Leu Glu Glu Ser Val Ala Leu Arg Ile
51          50                  55                  60
53 Ile Thr Glu Gly Ala Ser Ile Leu Arg Gln Glu Lys Asn Leu Leu Asp
54  65                  70                  75                  80
56 Ile Asp Ala Pro Val Thr Val Cys Gly Asp Ile His Gly Gln Phe Phe
57              85                  90                  95
59 Asp Leu Met Lys Leu Phe Glu Val Gly Gly Ser Pro Ala Asn Thr Arg
60              100                 105                 110
62 Tyr Leu Phe Leu Gly Asp Tyr Val Asp Arg Gly Tyr Phe Ser Ile Glu
63              115                 120                 125
```

```
65  Cys Val Leu Tyr Leu Trp Ala Leu Lys Ile Leu Tyr Pro Lys Thr Leu
66          130                 135                 140
68  Phe Leu Leu Arg Gly Asn His Glu Cys Arg His Leu Thr Glu Tyr Phe
69  145                 150                 155                 160
71  Thr Phe Lys Gln Glu Cys Lys Ile Lys Tyr Ser Glu Arg Val Tyr Asp
72              165                 170                 175
74  Ala Cys Met Asp Ala Phe Asp Cys Leu Pro Leu Ala Ala Leu Met Asn
75              180                 185                 190
77  Gln Gln Phe Leu Cys Val His Gly Gly Leu Ser Pro Glu Ile Asn Thr
78          195                 200                 205
80  Leu Asp Asp Ile Arg Lys Leu Asp Arg Phe Lys Glu Pro Pro Ala Tyr
81      210                 215                 220
83  Gly Pro Met Cys Asp Ile Leu Trp Ser Asp Pro Leu Glu Asp Phe Gly
84  225                 230                 235                 240
86  Asn Glu Lys Thr Gln Glu His Phe Thr His Asn Thr Val Arg Gly Cys
87              245                 250                 255
89  Ser Tyr Phe Tyr Ser Tyr Pro Ala Val Cys Asp Phe Leu Gln His Asn
90              260                 265                 270
92  Asn Leu Leu Ser Ile Leu Arg Ala His Glu Ala Gln Asp Ala Gly Tyr
93          275                 280                 285
95  Arg Met Tyr Arg Lys Ser Gln Thr Thr Gly Phe Pro Ser Leu Ile Thr
96      290                 295                 300
98  Ile Phe Ser Ala Pro Asn Tyr Leu Asp Val Tyr Asn Asn Lys Ala Ala
99  305                 310                 315                 320
101 Val Leu Lys Tyr Glu Asn Asn Val Met Asn Ile Arg Gln Phe Asn Cys
102             325                 330                 335
104 Ser Pro His Pro Tyr Trp Leu Pro Asn Phe Met Asp Val Phe Thr Trp
105             340                 345                 350
107 Ser Leu Pro Phe Val Gly Glu Lys Val Thr Glu Met Leu Val Asn Val
108             355                 360                 365
110 Leu Asn Ile Cys Ser Asp Asp Glu Leu Gly Ser Glu Glu Asp Gly Phe
111     370                 375                 380
113 Asp Gly Ala Thr Ala Ala Ala Arg Lys Glu Val Ile Arg Asn Lys Ile
114 385                 390                 395                 400
116 Arg Ala Ile Gly Lys Met Ala Arg Val Phe Ser Val Leu Arg Glu Glu
117             405                 410                 415
119 Ser Glu Ser Val Leu Thr Leu Lys Gly Leu Thr Pro Thr Gly Met Leu
120             420                 425                 430
122 Pro Ser Gly Val Leu Ser Gly Gly Lys Gln Thr Leu Gln Ser Ala Thr
123             435                 440                 445
125 Val Glu Ala Ile Glu Ala Asp Glu Ala Ile Lys Gly Phe Ser Pro Gln
126     450                 455                 460
128 His Lys Ile Thr Ser Phe Glu Glu Ala Lys Gly Leu Asp Arg Ile Asn
129 465                 470                 475                 480
131 Glu Arg Met Pro Pro Arg Arg Asp Ala Met Pro Ser Asp Ala Asn Leu
132             485                 490                 495
134 Asn Ser Ile Asn Lys Ala Leu Ala Ser Glu Thr Asn Gly Thr Asp Ser
135             500                 505                 510
137 Asn Gly Ser Asn Ser Ser Asn Ile Gln
```

Input Set : **A:\pto.kd.txt**
Output Set: **N:\CRF4\04042006\J518710.raw**

```
138          515                 520
141 <210> SEQ ID NO: 4
142 <211> LENGTH: 11
143 <212> TYPE: PRT
144 <213> ORGANISM: HIV virus
146 <400> SEQUENCE: 4
147 Tyr Gly Arg Lys Lys Arg Arg Gln Arg Arg Arg
148   1               5                   10
151 <210> SEQ ID NO: 5
152 <211> LENGTH: 26
153 <212> TYPE: PRT
154 <213> ORGANISM: human
156 <400> SEQUENCE: 5
157 Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Phe Asp Gly Ala Thr Ala
158   1               5                   10                  15
160 Ala Ala Arg Lys Glu Val Ile Arg Asn Lys
161             20                  25
164 <210> SEQ ID NO: 6
165 <211> LENGTH: 27
166 <212> TYPE: PRT
167 <213> ORGANISM: human
169 <400> SEQUENCE: 6
170 Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Arg Glu Glu Ser Glu Ser
171   1               5                   10                  15
173 Val Leu Thr Leu Lys Gly Leu Thr Pro Thr Gly
174             20                  25
```

VERIFICATION SUMMARY   DATE: 04/05/2006
PATENT APPLICATION: **US/10/518,710**   TIME: 10:29:40

Input Set : **A:\pto.kd.txt**
Output Set: **N:\CRF4\04042006\J518710.raw**

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date

Raw Sequence Listing before editing
(for reference only)

PCT

RAW SEQUENCE LISTING   DATE: 03/31/2006
PATENT APPLICATION: US/10/518,710   TIME: 15:28:28

Input Set : **A:\Sequence Listing.txt**
Output Set: **N:\CRF4\03312006\J518710.raw**

```
 3 <110> APPLICANT: Tomizawa, Kazuhito
 4         Matsui, Hideki
 6 <120> TITLE OF INVENTION: Inhibitor of constitutive active forming of carcineurin
 8 <130> FILE REFERENCE: JP-13650
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/518,710
C--> 10 <141> CURRENT FILING DATE: 2004-12-22
 10 <160> NUMBER OF SEQ ID NOS: 6
```

ERRORED SEQUENCES

```
35 <210> SEQ ID NO: 3
36 <211> LENGTH: 521
37 <212> TYPE: PRT
38 <213> ORGANISM: human
40 <400> SEQUENCE: 3
41 Met Ser Glu Pro Lys Ala Ile Asp Pro Lys Leu Ser Thr Thr Asp Arg
42   1               5                  10                  15
44 Val Val Lys Ala Val Pro Phe Pro Pro Ser His Arg Leu Thr Ala Lys
45              20                  25                  30
47 Glu Val Phe Asp Asn Asp Gly Lys Pro Arg Val Asp Ile Leu Lys Ala
48          35                  40                  45
50 His Leu Met Lys Glu Gly Arg Leu Glu Glu Ser Val Ala Leu Arg Ile
51      50                  55                  60
53 Ile Thr Glu Gly Ala Ser Ile Leu Arg Gln Glu Lys Asn Leu Leu Asp
54  65                  70                  75                  80
56 Ile Asp Ala Pro Val Thr Val Cys Gly Asp Ile His Gly Gln Phe Phe
57              85                  90                  95
59 Asp Leu Met Lys Leu Phe Glu Val Gly Gly Ser Pro Ala Asn Thr Arg
60          100                 105                 110
62 Tyr Leu Phe Leu Gly Asp Tyr Val Asp Arg Gly Tyr Phe Ser Ile Glu
63          115                 120                 125
65 Cys Val Leu Tyr Leu Trp Ala Leu Lys Ile Leu Tyr Pro Lys Thr Leu
66      130                 135                 140
68 Phe Leu Leu Arg Gly Asn His Glu Cys Arg His Leu Thr Glu Tyr Phe
69 145                 150                 155                 160
71 Thr Phe Lys Gln Glu Cys Lys Ile Lys Tyr Ser Glu Arg Val Tyr Asp
72              165                 170                 175
74 Ala Cys Met Asp Ala Phe Asp Cys Leu Pro Leu Ala Ala Leu Met Asn
75              180                 185                 190
77 Gln Gln Phe Leu Cys Val His Gly Gly Leu Ser Pro Glu Ile Asn Thr
78          195                 200                 205
80 Leu Asp Asp Ile Arg Lys Leu Asp Arg Phe Lys Glu Pro Pro Ala Tyr
```

```
81      210                 215                 220
83 Gly Pro Met Cys Asp Ile Leu Trp Ser Asp Pro Leu Glu Asp Phe Gly
84 225                 230                 235                 240
86 Asn Glu Lys Thr Gln Glu His Phe Thr His Asn Thr Val Arg Gly Cys
87                 245                 250                 255
89 Ser Tyr Phe Tyr Ser Tyr Pro Ala Val Cys Asp Phe Leu Gln His Asn
90                 260                 265                 270
92 Asn Leu Leu Ser Ile Leu Arg Ala His Glu Ala Gln Asp Ala Gly Tyr
93            275                 280                 285
95 Arg Met Tyr Arg Lys Ser Gln Thr Thr Gly Phe Pro Ser Leu Ile Thr
96       290                 295                 300
98 Ile Phe Ser Ala Pro Asn Tyr Leu Asp Val Tyr Asn Asn Lys Ala Ala
99 305                 310                 315                 320
101 Val Leu Lys Tyr Glu Asn Asn Val Met Asn Ile Arg Gln Phe Asn Cys
102                 325                 330                 335
104 Ser Pro His Pro Tyr Trp Leu Pro Asn Phe Met Asp Val Phe Thr Trp
105            340                 345                 350
107 Ser Leu Pro Phe Val Gly Glu Lys Val Thr Glu Met Leu Val Asn Val
108            355                 360                 365
110 Leu Asn Ile Cys Ser Asp Asp Glu Leu Gly Ser Glu Glu Asp Gly Phe
111       370                 375                 380
113 Asp Gly Ala Thr Ala Ala Ala Arg Lys Glu Val Ile Arg Asn Lys Ile
114 385                 390                 395                 400
116 Arg Ala Ile Gly Lys Met Ala Arg Val Phe Ser Val Leu Arg Glu Glu
117                 405                 410                 415
119 Ser Glu Ser Val Leu Thr Leu Lys Gly Leu Thr Pro Thr Gly Met Leu
120                 420                 425                 430
122 Pro Ser Gly Val Leu Ser Gly Gly Lys Gln Thr Leu Gln Ser Ala Thr
123            435                 440                 445
125 Val Glu Ala Ile Glu Ala Asp Glu Ala Ile Lys Gly Phe Ser Pro Gln
126       450                 455                 460
128 His Lys Ile Thr Ser Phe Glu Glu Ala Lys Gly Leu Asp Arg Ile Asn
129 465                 470                 475                 480
131 Glu Arg Met Pro Pro Arg Arg Asp Ala Met Pro Ser Asp Ala Asn Leu
132                 485                 490                 495
134 Asn Ser Ile Asn Lys Ala Leu Ala Ser Glu Thr Asn Gly Thr Asp Ser
135            500                 505                 510
137 Asn Gly Ser Asn Ser Ser Asn Ile Gln
E--> 138 515
```

VERIFICATION SUMMARY   DATE: 03/31/2006
PATENT APPLICATION: **US/10/518,710**   TIME: 15:28:29

Input Set : **A:\Sequence Listing.txt**
Output Set: **N:\CRF4\03312006\J518710.raw**

L:10 M:270 C: Current Application Number differs, Replaced Current Application No
L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:138 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:3